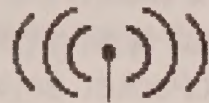
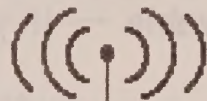


MACPACKET/TAPRterm



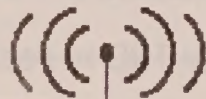
Version 1.1

MACPACKET/KANterm

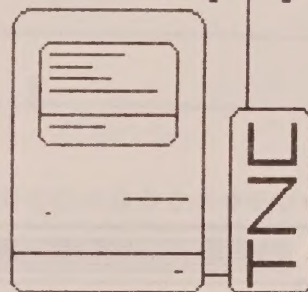


Version 1.0

MACPACKET/TNC2term



Version 1.0



By Jack Brindle, WA4FIB

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Brincomm Technology

MACPACKET/TAPRterm MACPACKET/KANterm
MACPACKET/TNC2term

"Front-end Processors" for the Apple Macintosh™

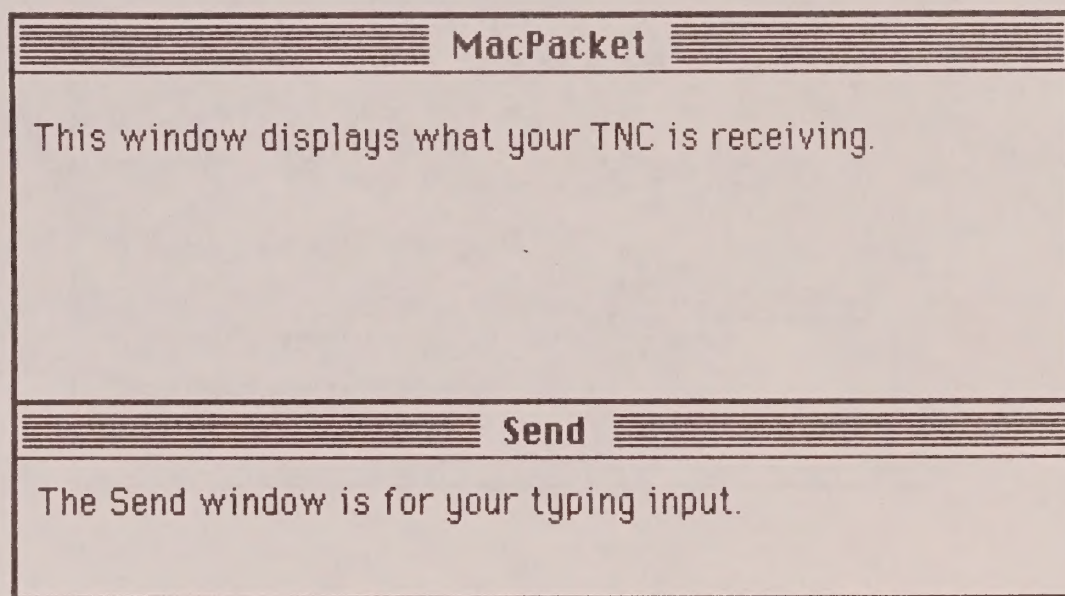
Packeteers ...

Free yourself from the cumbersome TNC interface! Let your computer take care of the command functions while you enjoy what you like most -- Packeting! The MacPacket software family turns your Apple Macintosh™ into a "front-end processor" for Terminal Node Controllers to handle functions and parameters. Just read on to see how easy it is!

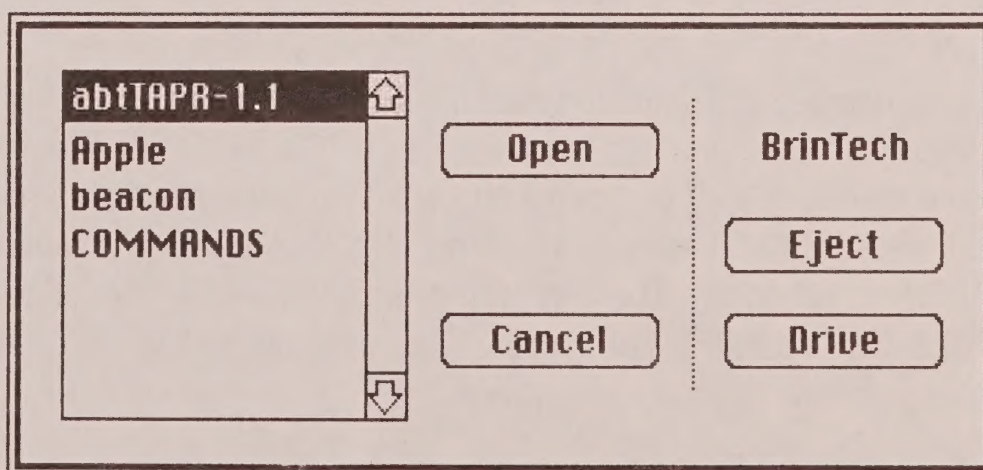
MacPacket remembers connection routing to other stations so you don't have to! Simply type in a destination station, click "Route", then "Connect" and sit back while the Mac and TNC do the rest! Want to send MacPaint pictures? No problem, just select "Send" along with the file to send. An exact copy of the picture will be created at the receiving station with the same name and characteristics as yours! This goes for programs too! To adjust TNC parameters, use the menus to select, edit, and save the parameter.

Features:

- ◇ Split screen display. Are you tired of your typing getting mixed with the received messages on your screen? MacPacket solves that by providing separate windows for what you input and what your TNC receives. The result? You have a less confusing packet session. And these windows, like most Macintosh windows, are movable -- if you don't like the Send window on bottom, move it!



- ◇ File upload, download and printing. MacPacket provides for both text file exchanges and automatic binary file transfers using MacBinary formatting with the new proposed AX.25 Session Layer protocol. Just select "Send Text" or "Send Binary" and friendly dialog boxes like this one make file transfer functions a snap! (MacBinary transfer capability planned for shipment in Spring, 1986.)



3155 Resin Street Marietta, GA 30066
Ph. (404) 565-6002 CompuServe ID: 73365,606

Customer Information:

Phone: (____) _____ Date: _____

ITEM	PRICE	QUANTITY	AMOUNT
MACPACKET/TAPRterm	\$69.95*	_____	\$_____
MACPACKET/KANterm	\$69.95*	_____	\$_____
MACPACKET/TNC2term	\$69.95*	_____	\$_____

TOTAL AMOUNT: \$_____

City: _____ State: _____ Zip: _____

Packet Radio for the Rest of Us

Packet radio is hot! It is the hottest thing in Amateur Radio since the repeater craze of the 1970s. Sending messages intercity and interstate from one's keyboard and uploading and downloading files to and from the local PBBS (packet bulletin-board system) have become full-time avocations for some packet-radio operators. And now packet radio is even more enjoyable because the interface between the packet-radio operator and the TNC (terminal-node controller) is easier to use.

MacPacket/TAPRterm is a program for the Apple Macintosh computer that creates an amiable user interface for the TAPR (Tucson Amateur Packet Radio) and TAPR-compatible TNCs. Jack Brindle, WA4FIB, wrote the program because "it seemed only natural to marry the Macintosh with the TAPR TNC." He continues:

The introduction of the Apple Macintosh computer with its "new" user interface has brought new understanding to the ways information is presented to computer users. The user is no longer saddled with a "text only" presentation scheme, but now is free to use the computer to do his task the way he wants to do it, with information presented in a way that makes using the computer fun! The Macintosh user interface has eliminated the need to memorize long strings of complex commands in order to perform work. Instead, the user simply selects a function, points at it and "clicks" the selection button! Additionally, the renowned graphics abilities of the "Mac" allow information to be presented in a more natural form, making interpretation of the data easier. These features make the Mac a natural for controlling ham devices.

This column conductor obtained MacPacket/TAPRterm and gave it a workout.

Windows on the Packet Radio World

Run the program and the Macintosh screen divides into two windows. The top window displays received information from the TNC—that is, data received over the air and TNC command prompts, parameter dumps, etc. The lower window displays information sent from the Macintosh keyboard. Hams who use computers for RTTY and CW operation are familiar with this split-screen feature. Now, it is welcome relief to packet-radio operators; other communication software used for packet radio display this information as a continuous stream of data with no differentiation between received and transmitted data.

MacPacket/TAPRterm eliminates a lot of the keyboard entry that most packet-radio operators must perform. According to its author, "The philosophy behind the program is that the computer should take care of as many TNC functions as possible to allow the operator to use the system without any distractions. As packet radio moves to networking and beyond, this philosophy will become more important with each added layer requiring additional control information. The goal is to eventually allow the amateur to sit

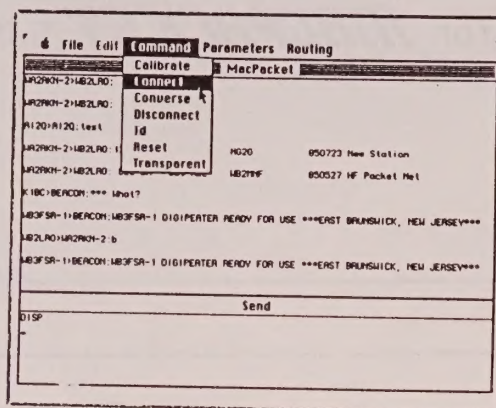


Fig. 1—The MacPacket/TAPRterm screen displays an upper window containing received data and a lower window containing transmitted data. The pull-down menus across the top of the screen access TAPR TNC commands.

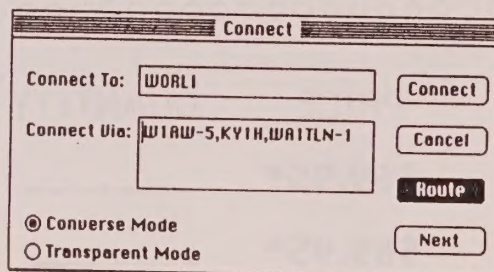


Fig. 2—When you mouse click the ROUTE button on the Connect command dialogue box, MacPacket/TAPRterm looks up the digital repeater path for the desired station (W0RLI). Once the Route is found, clicking the CONNECT button causes the TNC to attempt a connection.

down at his computer, request a QSO with another station, and begin communication, exchanging files or whatever else he desires without having to address the linking or routing issues. This goal is still in the future... For now, MacPacket/TAPRterm goes a long way to isolating the user from the TAPR TNC."

For example, to connect with W0RLI, I must repeat through stations W1AW-5, KY1H and WAITLN-1. Using the TAPR command protocol to attempt this connection, I key C W0RLI V W1AW-5, KY1H, WAITLN-1 into my computer (the C is shorthand for CONNECT; V, for VIA). Using MacPacket/TAPRterm, I pull down the Command menu and click on the word Connect with the Macintosh mouse (refer to Fig. 1). The program displays a dialogue box that asks for the call sign of the station I want to work. I key in W0RLI or click the NEXT button (until W0RLI appears) and click on the ROUTE button. The dialogue box (See Fig. 2) displays the route to W0RLI (W1AW-5, KY1H, WAITLN-1). I click on the CONNECT button, and the TNC keys my transmitter.

As can be seen by this illustration, Mac-

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MacPacket Packet Radio Packages:

MacPacket/TAPRterm

- REA PKT-1
- TAPR TNC1
- Heath HD-4040

MacPacket/KANterm

- Kantronics Packet Communicator

MacPacket/TNC2term

- REA PK-80
- GLB TNC-2A
- MFJ Electronics MFJ-1270
- Pac-Comm TNC-200

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Packet/TAPRterm eliminates the need to remember or to look up the TAPR commands. All commands are available on the pull-down menus. MacPacket also eliminates the need to remember or to look up the repeater paths required to make a connection. Up to 100 routes may be stored by the program. Type or look up (using the NEXT button) the call sign of the station you wish to connect with and click on the ROUTE button, and the program looks up the saved route associated with that call sign. How much easier can it be?

The program has other features, including the ability to save data to disk, send files from disk and print hard copies of data. Another version of the program, MacPacket/KANterm, is essentially the same as MacPacket/TAPRterm, except that it is intended to provide a user interface between the Apple Macintosh computer and the Kantronics "Packet Communicator" TNC rather than the TAPR TNC. For more information concerning MacPacket/TAPRterm and MacPacket/KANterm, contact Jack Brindle, WA4FIB, Brincomm Technology, 19451 Gulf Blvd., No. 503, Indian Rocks Beach, FL 33535.

- ◊ Full menu selection of TNC commands and parameters. Your Macintosh made pull-down menus a household word and MacPacket takes advantage of them for you. No more tedious typing of cryptic commands! Just drag and click! Shown below are the Command Menu and the TNC Menu for **MacPacket/TNC2term**. Corresponding menus for **MacPacket/KANterm** and **MacPacket/TAPRterm** are similar.

Command	TNC
Connect	Character
Disconnect	Id
Command file	Link
Converse	Monitor
Transparent	Terminal
Calibrate	Timing
Id	Heard log
Reset	

- ◊ Routing tables. Connect to one station often? Tired of entering the route information over and over? Well, from now on select the Routing Menu and a dialog box like this one appears. All you do is enter the information once; MacPacket remembers it the next time! What could be easier!

Routing	
Station Call:	K46FG
Connect Via:	KC2FF-7,W1BEL,N2WX-7, K4NTA,WA4ARE-1
	Exit
	Find
	Save
	Delete
	Next

- ◊ And since we are continually perfecting MacPacket, many more exciting features will be added in the near future.

By now you are asking yourself, why three products? Well, each hardware device has different ways of handling parameters and commands. So we at Brincomm Technology have developed three software packages to best serve the needs of your hardware. If you have either a TAPR TNC 1, Heath HD4040, or AEA PKT-1, then **MacPacket/TAPRterm**, our firstborn, is for you. Bought a Kantronics Packet Communicator™? Try **MacPacket/KANterm**, it's a beauty. But what if have a TAPR TNC 2 or clone? Then our best-selling **MacPacket/TNC2term** will gladly assist you.

Each MacPacket product comes with a diskette, a manual, and our one-year upgrade policy. With more features planned, the upgrade policy is a blessing to your budget. Here's how it goes: if we release an upgrade for your particular MacPacket within one year of purchase, we will send it to you. All we ask in return is a diskette (or \$5.00, whichever is more convenient for you). And listing at only \$69.95, you can't beat the price!

If you are interested in more information about MacPacket, Brincomm Technology, or have other questions, write to us. We will do our best to answer you as soon as possible. If you wish to purchase any MacPacket product just mail the enclosed order form and appropriate amount (in the form of a check or money order) to:

Brincomm Technology

**3155 Resin Street
Marietta, GA 30066
Ph. (404) 565-6002**

**Macintosh is a trademark licensed to Apple Computer, Inc.
Kantronics Packet Communicator is a trademark of Kantronics.**

**MacPacket/KANterm is currently for Kantronics version 1.5 software.
Version 2.0 support to be shipped early Spring, 1986.**